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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/563,091	12/30/2005	Jacobus A.M. Thomassen	082671-0234	8135

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FOLEY AND LARDNER LLP
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EXAMINER

NGUYEN, TAI V

ART UNIT	PAPER NUMBER
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3729

MAIL DATE	DELIVERY MODE
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07/18/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No. **10/563,091**

Applicant(s)

THOMASSEN, JACOBUS A.M.

Examiner

Tai Van Nguyen

Art Unit

3729

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 24 May 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 8-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 8-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Amendment

1. The applicants' amendment filed 5/24/2007 has been fully considered and made of record.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 8-13 and 16-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Hashimoto (US 5,724,722).

As applied to claim 8, Hashimoto discloses a component placement device comprising: an elongated transport (e.g. 17, Fig. 1) device that is configured to transport a substrate (e.g. S) in a transport direction parallel to the transport device; device, at least one component feeder (e.g. 14) that is located along a longitudinal side of the transport device; at least one component pick-and-place unit (e.g. 19) that is configured to: (a) pick-up a component (e.g. C) from the at least one component feeder; and (b) place the component on the substrate; and a substrate (S) support that is situated along a longitudinal side of the transport device (e.g. 18) and that faces away from the at least one component feeder (e.g. 14), the substrate support extends perpendicular to the transport direction (column 5, lines 1-18).

As applied to claim 9, Hashimoto discloses wherein the substrate support is detachably connected to the component placement device (e.g. 15).

As applied to claim 10, Hashimoto disclose wherein the substrate support comprises drive means configured to transport the substrate (e.g. 17) in a feeding direction that extends transverse to the transport direction (see Fig. 1).

As applied to claim 11, Hashimoto discloses wherein the transport device comprises at least one guide profile (e.g. 13) that extends parallel to the transport direction, wherein the at least one guide profile is connected to the substrate support (e.g. 15), and wherein the at least one guide profile is configured to be moved together with the substrate support in a direction that extends transverse to the transport direction (see Fig. 1).

As applied to claims 12 and 13, Hashimoto discloses wherein the substrate supports comprises two guides (e.g. 17) that extend parallel to each other and transverse to the transport direction.

As applied to claims 16-18, Hashimoto discloses wherein the substrate support is configured to be moved vertically from a position parallel to the transport device to a position underneath the transport device (column 5, lines 1-18).

As applied to claim 19, Hashimoto discloses wherein the substrate support is situated on a side of the transport device (e.g. 18) opposite the at least one component feeder (e.g. 14), and wherein the substrate support (e.g. 15) extends perpendicular to the transport direction and moves the substrate in a direction perpendicular to the transport direction (see Fig. 1).

As applied to claim 20, Hashimoto discloses a component placement device comprising: an elongated transport device (e.g. 18) that is configured to transport a substrate in a transport direction parallel to the transport device; a component feeder (e.g. 15) that is located only on one longitudinal side of the transport device; at least one component pick-and-place unit (e.g. 30) that is configured to: (a) pick-up a component from the at least one component feeder (e.g. 15); and (b) place the component (e.g. 19) on the substrate (e.g. S); and a substrate support that is situated along a longitudinal side of the transport device on an opposite side of the transport device from the component feeder (see Fig. 1), the substrate support extends perpendicular to the transport device (column 5, lines 1-18).

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 14 and 15 rejected under 35 U.S.C. 103(a) as being unpatentable over Hashimoto in view of Togami et al (US 5,855,059).

As applied to claims 14 and 15, Hashimoto discloses all of the limitations of the claimed invention except that the distance between the guides is adjustable.

However, Togami et al teach the distance between the guides is adjustable (see column 4, lines 5-18).

It would have been obvious to one of ordinary skill in the art at this time the invention was made to have modified the method of Hashimoto by including the guide is adjust, as taught by Togami, to positively provide an improved high speed, high capability mounter for mounting components on substrate (column 1, lines 5-7).

Response to Arguments

6. Applicant's arguments with respect to claims 8-19 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).


A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tai Van Nguyen whose telephone number is 571-272-4567. The examiner can normally be reached on M-F (7:30 A.M - 4:30 P.M).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Vo can be reached on 571-272-4690. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

TN. July 13, 2007



A. DEXTER TUGBANG
PRIMARY EXAMINER